

**SYSTEMS AND METHODS FOR IMPLEMENTING AN ENHANCED
MULTI-CHANNEL DIRECT LINK PROTOCOL BETWEEN STATIONS
IN A WIRELESS LAN ENVIRONMENT**

ABSTRACT OF THE DISCLOSURE

Systems and methods for implementing an enhanced multi-channel direct link protocol between wireless stations in a wireless LAN environment are disclosed. An exemplary method is implemented in a first wireless station that is part of an infrastructure basic service set network. The infrastructure basic service set network also includes an access point and a second wireless station. The wireless stations of the infrastructure basic service set network communicate on an infrastructure frequency channel. The method involves determining that at least one condition is satisfied for establishing a direct link with the second wireless station for transmission of data from the first wireless station to the second wireless station. The direct link is established with the second wireless station on a direct link frequency channel that is different than the infrastructure frequency channel. The data is transmitted to the second wireless station via the direct link.

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